5856-127

THE SCANDINAVIAN JOURNAL OF *Clinical & Laboratory Investigation*

UNIVERSITY OF HAWAII
LIBRARY

EDITED FOR
THE SCANDINAVIAN SOCIETY
FOR CLINICAL CHEMISTRY
AND CLINICAL PHYSIOLOGY

PERIODICAL

VOL. 10, 1958

Board of Editors

P. ASTRUP
H. O. BANG
E. BIERRING
E. BLEGEN
K. BRØCHNER-MORTENSEN
L. EFSKIND
R. FRISK
N. HALLMAN
O. HELVE
P. IVERSEN
B. JOSEPHSON
F.-E. KRUSIUS
J. LEHMANN
O. J. MALM
P. A. OWREN
H. PALMER
A. PEKKARINEN
L. RAURAMO
F. SCHØNHEYDER
T. SJÖSTRAND
S. L. SVEINSSON
G. TÖTTERMAN
J. WALDENSTRÖM
H. WULFF

PUBLISHED BY
MEDISINSK FYSIOLOGISK FORENINGS FORLAG
OSLO

Digitized by the Internet Archive
in 2023 with funding from
Kahle/Austin Foundation

https://archive.org/details/scandinavian-journal-of-clincal-laboratory-investigation_1958_10_content

689778

RB
S3
v.10

CONTENTS OF VOLUME X

No. 1.

H. DYGGVE: Comparison between micro-modifications of prothrombin-proconvertin determinations and of the prothrombin time method 1
S. GJØRUP and J. H. THAYSEN: Distribution of potassium excess in oliguric patients 5
B. KUHLBÄCK and P. WAHLBERG: The radioactive iodine excretion test in renal failure 11
S. O. LILJEDAHL, O. MATTSON and B. PERNOW: The effect of substance P on intestinal motility in man 16
K. G. PAUL and L. M. ENGSTEDT: Normal and abnormal blood catalase activity in adults 26
I. SPAK: On the clinical value of paper electrophoresis and of determination of muco-protein in ascitic fluid 34
L. ERIKSEN: Zone electrophoresis as a means of establishing the number of acidic groups in porphyrin pigments 39
G. HAMMARSTEN and B. M. SANDELL: Peptides isolated from the serum of cases of leukemia 42
G. HJORT: Supravital neutral red staining of lymphocytes after irradiation 46
O. SVENSMARK: Determination of protein in cerebrospinal fluid 50
T. LAURSEN and P. FROM HANSEN: A fluorimetric method for measuring the activity in serum of the enzyme glutamic pyruvic transaminase 53
H. MÖLLERBERG: A two-dimensional paper chromatographic method for the separation of barbiturates 59
B. HAGBERG, G. WALLENIUS and L. WRANNE: Latent iron deficiency after repeated removal of blood in blood donors 63
E. ASMUSSEN and L. HEMMINGSEN: Determination of maximum working capacity at different ages in work with the legs or with the arms 67
S. BIRKELAND: A method for quantitative evaluation of red cell turnover in humans. I. Normal values 72
S. BIRKELAND: A method for quantitative evaluation of red cell turnover in humans. II. Clinical application 81
O. K. ALBRECHTSEN: The fibrinolytic agents in saline extracts of human tissues 91
E. SVENNERHOLM and L. SVENNERHOLM: Quantitative estimation of cerebrosides in plasma 97
H. HEISTØ and O. P. FOSS: Iron deficiency and treatment in blood donors studied by the iron absorption test 102

Technique and practical problems:

L. E. BÖTTINGER: A simple clinical method for the determination of salazopyrin (azulfidine) in serum 108
K. B. PETERSEN and T. K. WITH: A simple method of cleaning mercury 110
P. PETERSEN: A capillary ink pen for writing on kymograph paper 111
C. G. BERGLIN and L. KÅGEBY: A simple calf and foot plethysmograph 113

Letters to the editors:

K. GYDELL: On the hyperbilirubinemic and hyperferricemic action of nicotinic acid 115
K. J. KINGSBURY and D. M. MORGAN: Effect of ether-insoluble phosphatides on plasma recalcification times 116
E. HAAHTI, J. HARRI and J. KALLIOMÄKI: Serum glutamic oxalacetic transaminase and zone electrophoresis of serum 118

No. 2.

R. LUNDSTRÖM and O. RAMGREN: Plasmapheresis in the preparation of hyperimmune serum 119
S. BIRKELAND: The use of the isotope Cr^{51} for studying destruction of red cells in healthy humans 122
S. BIRKELAND: A red cell balance index (B. I.) 133
T. LINDNER and G. TUNEVALL: Hypothermia and infection. I. Influence of hypothermia on antibody formation in mice in the secondary response to typhoid-H-antigen 142
J. W. DATE: A quantitative method for estimation of some carbohydrates on filter paper 149
J. W. DATE: Quantitative determination of some carbohydrates in normal urine 155
S. JOHANNESSEN and H. ERICSSON: *In vitro* studies of bacterial sensitivity to tetracycline and oleandomycin in combination 163
W. F. STAPP: A one stage method for the assay of antihemophilic factor B (AHF B) 169
L. KORSGAARD CHRISTENSEN: A method for the determination of trypsin inhibitors in urine and serum 177
P. J. CHRISTENSEN and O. R. STEENSTRUP: Uric acid excretion with increasing plasma glucose concentration (pregnant and non-pregnant cases) 182
T. K. WITH: The bindings of porphyrins to serum proteins 186
T. K. WITH: The behavior of the bilirubin-albumin bond in serum on diazotization 188
T. HEIKEL: A paper electrophoretic and paper chromatographic study of pentdyopent .. 191
T. HEIKEL: Determination of porphobilinogen, copro- and uroporphyrin in urine and tissue 193
J. K. VISAKORPI and A.-L. PURANEN: High-voltage paper electrophoresis. A rapid method for determination of urinary amino acids 196
G. SØNDERGAARD: Micro-method for determination of blood galactose by means of glucose oxidase (notatin) and anthrone 203
L. KORSGAARD CHRISTENSEN: Determination of protein-bound radioactive iodine 211
B. ROSENLUND: The relationship between hyperhexosaminemia and stress 216
B. ROSENLUND: The role of the liver in stress hyperhexosaminemia 219

Technique and practical problems:

K. WINKLER and N. TYGSTRUP: Determination of respiratory gases by paramagnetic oxygen analyser and carbon dioxide catharometer 221
P. PETERSEN: A kymograph driven by a synchronous motor with a continuously variable velocity 224
P. F. SCHOLANDER and H. JENSEN: Bag spirometer 225

Letters to the editors:

K. J. KINGSBURY and D. M. MORGAN: The effect of the phospholipids of dairy produce on the recalcification times of human plasma 227
B. HÆGER: Studies on a δ-aminolevulic acid-like substance in urine from lead workers 229
B. KUHLBÄCK and R. GRÄSBECK: The urinary excretion of parenterally administered radiovitamin B_{12} in renal failure 231

No. 3.

H. DUNÉR and B. PERNOW: Determination of histamine in blood and urine by absorption on Amberlite IRC-50 — with special reference to the normal values for histamine in human blood and an analysis of the specificity of the method 233

J. FOG: Determination of bilirubin in serum as alkaline "azobilirubin" 241
J. FOG: Icterus index determined with the spectrophotometer, corrected for turbidity and hemoglobin 246
J. FOG: Serum bilirubin and the yellow color of serum 251
B. LARSEN: Studies on the congo red binding to serum 257
J. A. LARSEN: Determination of the hepatic blood flow by means of ethanol — preliminary report 263
E. ASMUSSEN and M. NIELSEN: A bubble method for determination of pCO_2 and pO_2 in blood 267
P. VILKKI: A modification of the alkaline combustion method for the determination of protein-bound iodine in serum 272
H. BERLIN, R. BERLIN, G. BRANTE and S.-G. SJÖBERG: Studies on intrinsic factor and pernicious anemia. — I. Oral uptake of vitamin B_{12} in pernicious anemia with increasing doses of an intrinsic factor concentrate 278
B. ISAKSSON: A simple formula for the mental arithmetic of the human body surface area 283
L. AUTIO and S. SALMINEN: Micromethod for the measurement of colloid osmotic pressure through hydrostatic compensation 290
T. K. WITH: Preparation of crystalline porphyrin esters from porphyria urines and normal human urine 297
S. LINDE: A comparison between the enzyme patterns (GO-T, GP-T, LD) in serum and tissue extracts in cardiac and hepatic diseases 303
S. LINDE: On the mechanism of the elevation of serum glutamic-oxalacetic transaminase (SGO-T) in obstructive jaundice 308
O. K. ALBRECHTSEN, O. STORM and M. CLAASSEN: Fibrinolytic activity in some human body fluids 310
L. ERIKSEN: Paper chromatographic separation of coproporphyrin isomers I and III 319
F.-E. KRUSIUS, M. OKA and A. KÄRKELÄ: Studies in the response of free and conjugated plasma 17-hydroxycorticosteroids to corticotrophin in miscellaneous clinical disorders 323
M. OKA and F.-E. KRUSIUS: Effect of corticotrophin on plasma cholinesterase activity 333
C.-B. LAURELL, H. LAURELL and J. WALDENSTRÖM: Polysaccharide content of serum in patients with hypergammaglobulinemia 337

Technique and practical problems:

O. P. FOSS and B. ANDERSEN: An apparatus for automatic coloring and de-coloring of electrophoresis papers 344
P. HANSEN: A device for magnetic stirring in electrometric titration 345

Letters to the editors:

E. NANDRUP: Metabolic changes in acid-base equilibrium during operation and anesthesia 346
T. ARONSSON and A. GRÖNWALL: Electrophoretic separation of serum protein into twelve fractions 348

No. 4.

R. DYBKÆR and G. JENSEN: Acid serum-phosphatase levels following massage of the prostate 349
A. FØLLING and S. SYDNES: A method for the estimation of phenylpyruvic acid in urine with some examples of its use in dietary treatment of phenylpyruvic oligophrenia 355
F.-E. KRUSIUS and M. OKA: Determination of conjugated 17-hydroxycorticosteroids in human peripheral blood 359
P. J. CHRISTENSEN: Tubular reabsorption of glucose during pregnancy 364
C. A. GEMZELL, H. ROBBE and G. STRÖM: On the equilibration of carbon monoxide between human maternal and fetal circulation *in vivo* 372
C. B. BERGSTRAND and B. CZAR: Protein-bound carbohydrates in human fetal serum 379

M. LASSEN: The estimation of fibrinolytic components by means of the lysis time method 384
H. DUNÉR and B. PERNOW: The correlation between the occurrence of histamine in blood and urine ... 390
H. DUNÉR and B. PERNOW: Histamine and leukocytes in blood during muscular work in man ... 394
A. CARLSTEN and G. GRIMBY: Rapid changes in human right heart blood temperature at variations in venous return ... 397
J. BERGSTRÖM, H. BUCHT and J. EK: The influence of chlorothiazide on the renal functions ... 402
L. A. CARLSON and L. B. WADSTRÖM: A colorimetric method of determining unesterified fatty acids in plasma ... 407
T. LYGREN and H. E. REFSUM: Quantitative determination of proteinuria by Closs' polythionate method ... 415
O. P. FOSS: Paper electrophoresis of I^{131}-labelled serum proteins ... 418

Technique and practical problems:

R. BARKMAN and H. MÖLLERBERG: A note on the copper sulfate method of serum protein determination ... 427
P. F. SCHOLANDER and O. IVERSEN: New design of volumetric respirometer ... 429
B. ZAAR: Determination of N-(5-nitro-2-furfurylidene)-1-aminohydantoin in urine ... 432
S. E. BJÖRKMAN: Method for determining absolute reticulocyte count ... 435
O. P. FOSS and B. ANDERSEN: An apparatus for rapid micro-titration of calcium in serum with EDTA ... 437
H. E. REFSUM and B. HISDAL: Construction and use of a simple reflectometer for determination of hemoglobin oxygen saturation in blood ... 439

Letters to the editors:

J. W. DATE: Quantitative estimation of mannose, fucose, and ribose on filter paper ... 444
J. FOG: Serum bilirubin and the yellow color of icteric serum ... 446
R. GRÄSBECK and W. NYBERG: Inhibition of radiovitamin B_{12} absorption by ethylenediaminetetraacetat (EDTA) and its reversal by calcium ions ... 448